

GC/Q-TOF/MS (Gas Chromatography/Quadrupole/Time-of-Flight/Mass Spectrometry)

Gas chromatography - a time-of-flight mass spectrometer (GC / QTOF / MS) is an analytical measurement system used in structure and quantitation by sequential matching of quadrupole and flight time characteristics with gas chromatography. In this system, masses can be detected more sensitively depending on the flight time, after the ions formed from the components separated according to their volatility in the gas chromatograph column, correlatively they are first separated according to their mass / charge ratio.

GC / QTOF / MS Application areas:

- Volatile or semi-volatile substances
- Food samples
- Oil samples
- Petroleum and petroleum derived materials
- Drugs and drugs
- Metabolites
- Cosmetics
- Doping materials

Instrument Name: AGILENT 7200B Series GC / Q-TOF

Instrument Hardware and Features

- Agilent 7890A GC
- Backflush-ready system
- Ion Source: High-sensitivity Extractor, durable up to 350 ° C, removable
- Quadrupole: Quartz Monolithic
- Hyperbolic Quadrupole (can be heated up to 200 ° C)
- Stable, high performance flight time technology (INVAR flight tube)
- Hybrid Channel Plate PMT Ion Detector
- Extended mass range: m / z 3000
- Mass Accuracy: <3 ppm RMS
- New Software Features and Mass Library Tools
- GC / Q-TOF Pesticide Mass Library